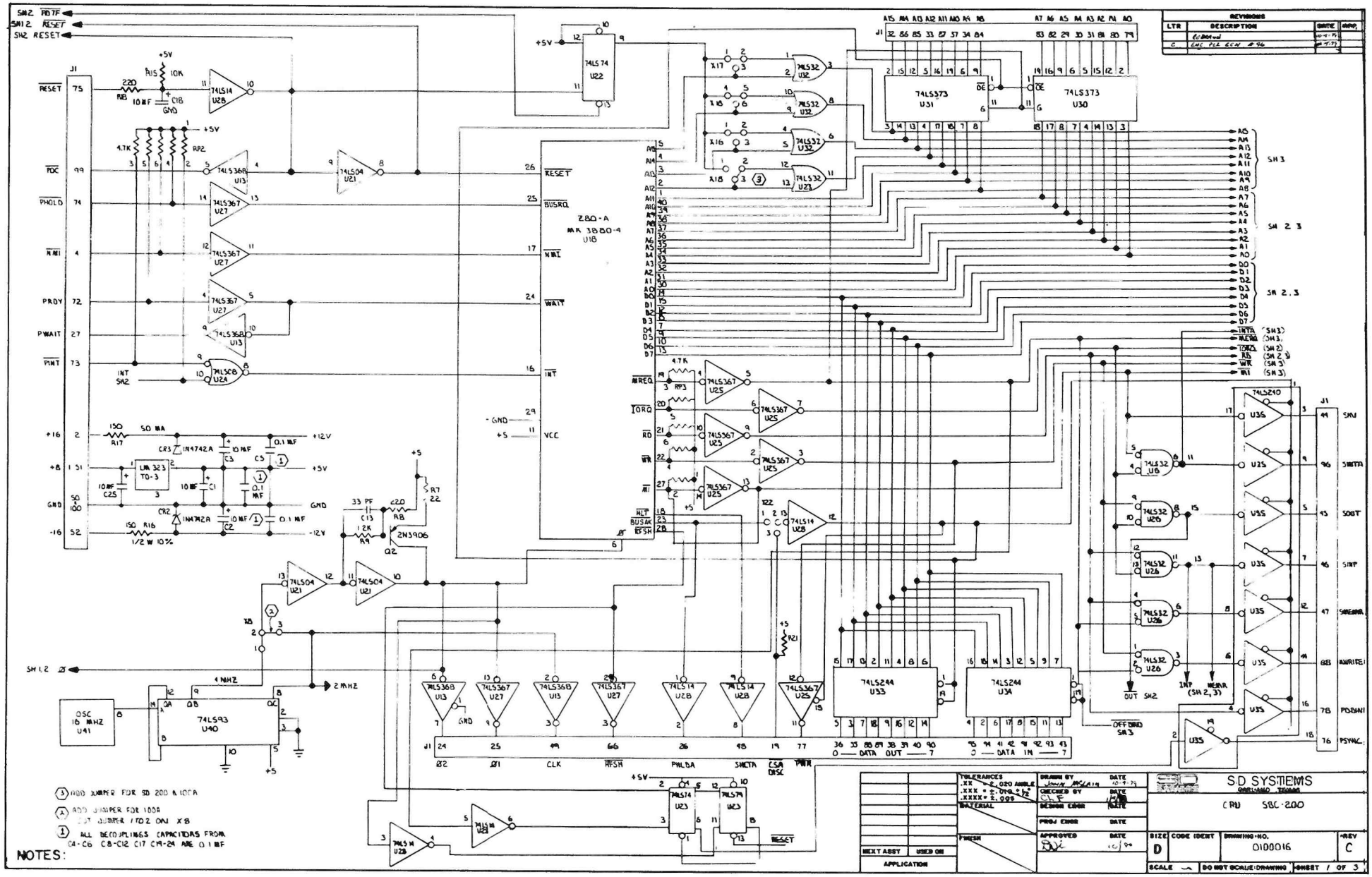
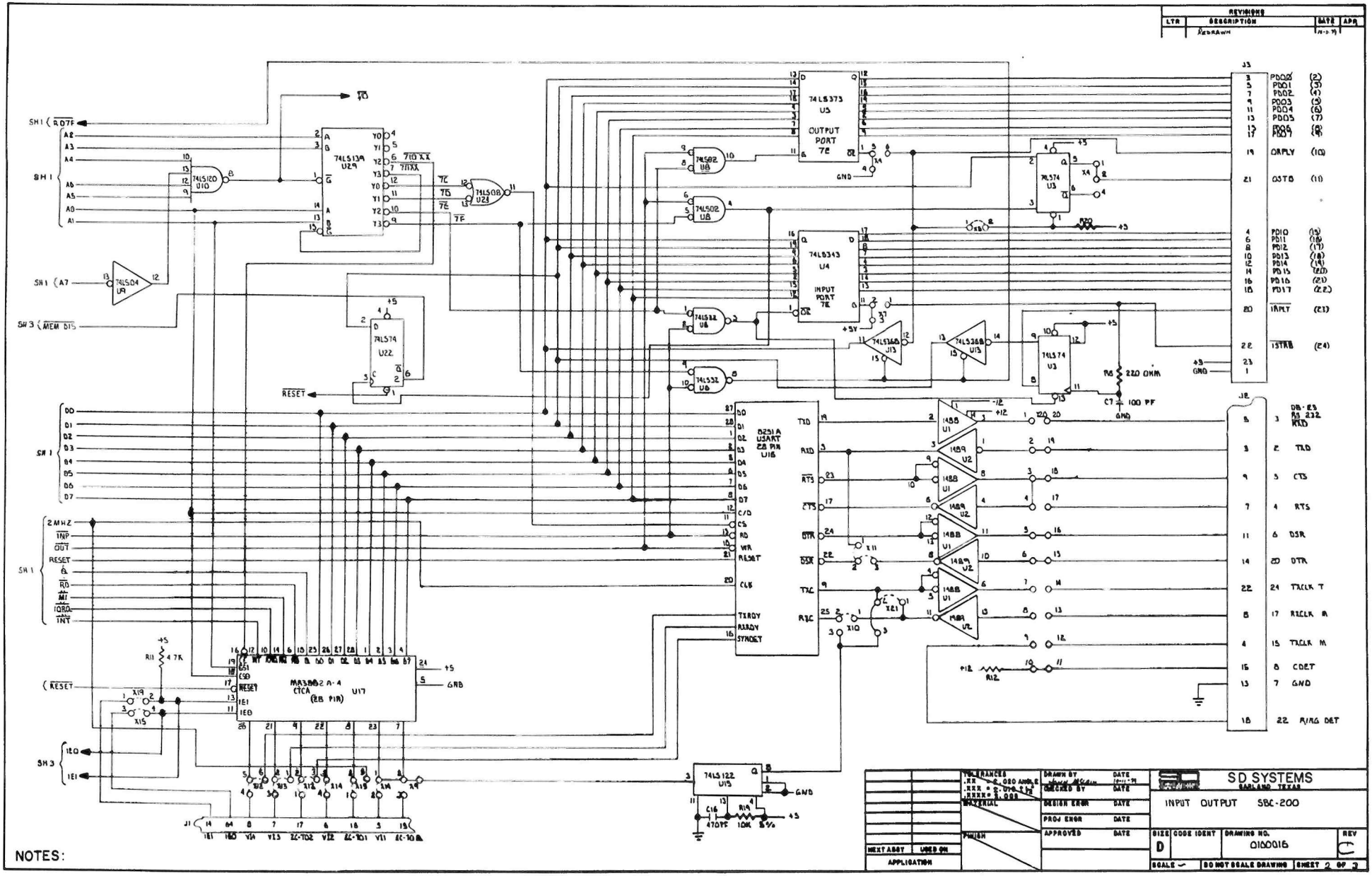
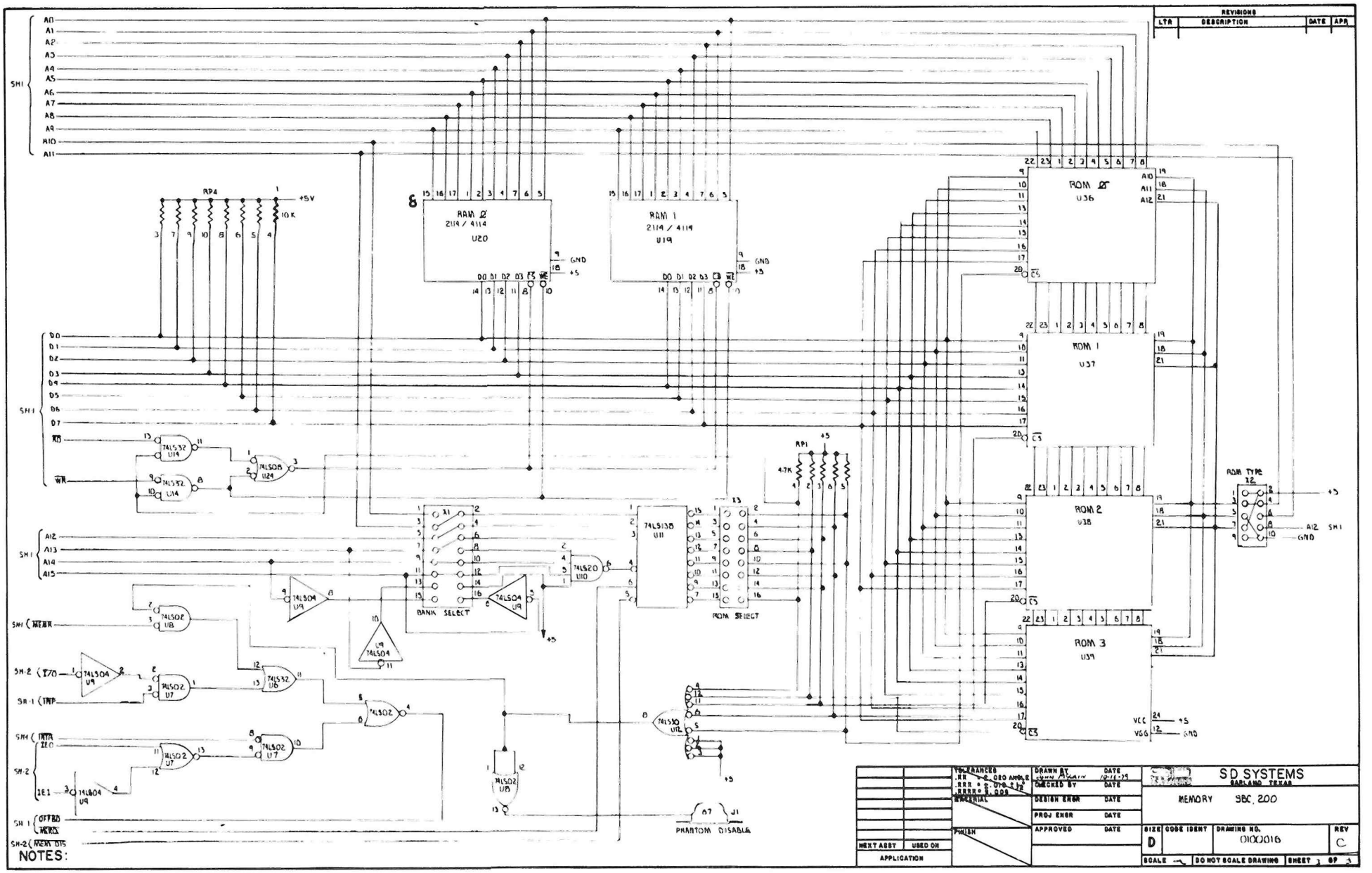

SD SYSTEMS
CRU SBC-200
NOTES:
1. ALL DECOUPLING CAPACITORS FROM C4-C6 C8-C12 C17 C19-24 ARE 0.1 MF
2. ADD JUMPER FOR 1008
3. ADD JUMPER FOR SD 200 & 100A
REVISIONS
SIZE D
DRAWING NO. 0100016
REV C
SCALE —
DO NOT SCALE DRAWING
SHEET 1 OF 3


REVISIONS
LTR DESCRIPTION DATE APP
REDRAWN
74LS373 U5 OUTPUT PORT 7E
74LS374 U3
74LS138 U29
74LS120 U10
74LS04 U9
74LS08 U23
74LS02 U8
74LS32 U6
74LS374 U22
74LS368 U13
74LS343 U4 INPUT PORT 7E
8251A USART 28 PIN U16
MK3882 A-4 CTCA (28 PIN) U17
74LS122 U15
1488 U1
1489 U2
R11 4.7K
R12
R13 10K 5%
R5 220 OHM
C7 100 PF
C16 470PF
SW1
SW3
J1
J2
J3
NOTES:
SD SYSTEMS
OAKLAND TEXAS
INPUT OUTPUT SBC-200
SIZE D
DRAWING NO. 0100016
REV C
SCALE —
DO NOT SCALE DRAWING
SHEET 2 OF 2


REVISIONS
LTR DESCRIPTION DATE APR
RAM 0 2114 / 4114 U20
RAM 1 2114 / 4114 U19
ROM 0 U36
ROM 1 U37
ROM 2 U38
ROM 3 U39
RP4
RP1
10 K
4.7K
+5V
GND
BANK SELECT
ROM SELECT
ROM TYPE
PHANTOM DISABLE
NOTES:
SD SYSTEMS
MEMORY SBC 200
DRAWING NO. 0100016
SIZE D
REV C

APPENDIX B

SBC-200 PARTS LIST

SD Systems

P.O. Box 28810 • Dallas, Texas 75228 214-271-4667

BILL OF MATERIALS

Title: SBC-200 SINGLE BOARD COMPUTER	PL No. 0100015	Rev. D
Date Released:	Approved: EAS 8-13-79 CLP	Sheet 2 of 4

Item no	Qty	SD-P/N	Description	Unit Cost	Extension
1	1	7000016	PC BOARD 0100017		
2	1	7010334	Z 80A CPU MK3880-4 U18		
3	1	7010388	CTC-A MK 3882-4 U17		
4	2	7010321	RAM 2114 U19,20		
5	1	7010341	USART 8251 U16		
6	1	7080006	16 MHZ CRYSTAL OSCILLATOR Y1		
7	2	7010162	74LS02 U7, 8		
8	2	7010164	74LS04 U9, 21		
9	1	7010166	74LS08 U24		
10	1	7010172	74LS14 U28		
11	1	7010174	74LS20 U10		
12	1	7010180	74LS30 U12		
13	4	7010181	74LS32 U6, 14,26,32		
14	3	7010195	74LS74 U3, 22, 23		
15	1	7010213	74LS122 U15		
16	1	7010219	74LS138 U11		
17	1	7010220	74LS139 U29		
18	1	7010260	74LS240 U35		
19	2	7010264	74LS244 U33,34		
20	2	7010302	74LS367 U25, 27		
21	1	7010303	74LS368 U13		
22	4	7010304	74LS373 U 4, 5, 30, 31		
23	1	7010332	75188/MC1488, U1		
24	1	7010333	75189/MC 1489, U2		

SD Systems

P.O. Box 28810 • Dallas, Texas 75228 214-271-4667

BILL OF MATERIALS

Title: SBC-200 SINGLE BOARD COMPUTER	PL No. 0100015	Rev. D
Date Released:	Approved: 8-13-79 CLF	Sheet 3 of 4

Item no	Qty	SD-P/N	Description	Unit Cost	Extension
25	19	7060002	SOCKET 14 PIN U1,2,3,6,7,8,9,10,12,14,15, 21,22,23,24,26,28,32 & 40		
26	5	7060003	SOCKET 16 PIN U27,29,11,13 & 25		
27	2	7060004	SOCKET 18 PIN U20 & 19		
28	7	7060005	SOCKET 20 PIN U4,5,30,31,33,34 & 35		
29	4	7060007	SOCKET 24 PIN U36-U39		
30	2	7060008	SOCKET 28 PIN U16,17		
31	1	7060009	SOCKET 40 PIN U18		
32	1	7160002	VOLTAGE REG 5V 3A LM323 VR1		
33	5	7030009	CAP. 10 MFD 25V C1,C2,C3,C18 & C25		
34	18	7030045	CAP. .1 MFD 50V C4-6,C8-12,C17,C19-24,		
			C26,C14,C15		
35	2	7130072	PCB EJECTORS		
36	1	7030015	CAPACITOR 470 PFD 50V C16		
38	1	7030047	CAPACITOR 33 PFD 50V C13		
39	1	7030049	CAPACITOR 100 PFD 50V C7		
40	1	7010397	RESISTOR SIP 10K 10 PIN RP4		
41	3	7010398	RESISTOR SIP 9.7K 6 PIN RP1,2,3		
42	3	7020057	RESISTOR 220 OHM 1/4W 10% R6,8,18		
43	2	7020171	RESISTOR 150 OHM 1/2W 10% R16,17		
45	3	7020089	RESISTOR 4.7K 1/4W 10% R11,20,21		
46	1	7020075	RESISTOR 1.2K 1/4W 10% R9		
47	1	7020033	RESISTOR 22 OHM 1/4W 10% R7		

SD Systems

P.O. Box 28810 • Dallas, Texas 75228 214-271-4867

BILL OF MATERIALS

Title: SBC-200 SINGLE BOARD COMPUTER	PL No. 0100015	Rev. D
Date Released:	Approved: ERS 8-13-79	Sheet 4 of 4

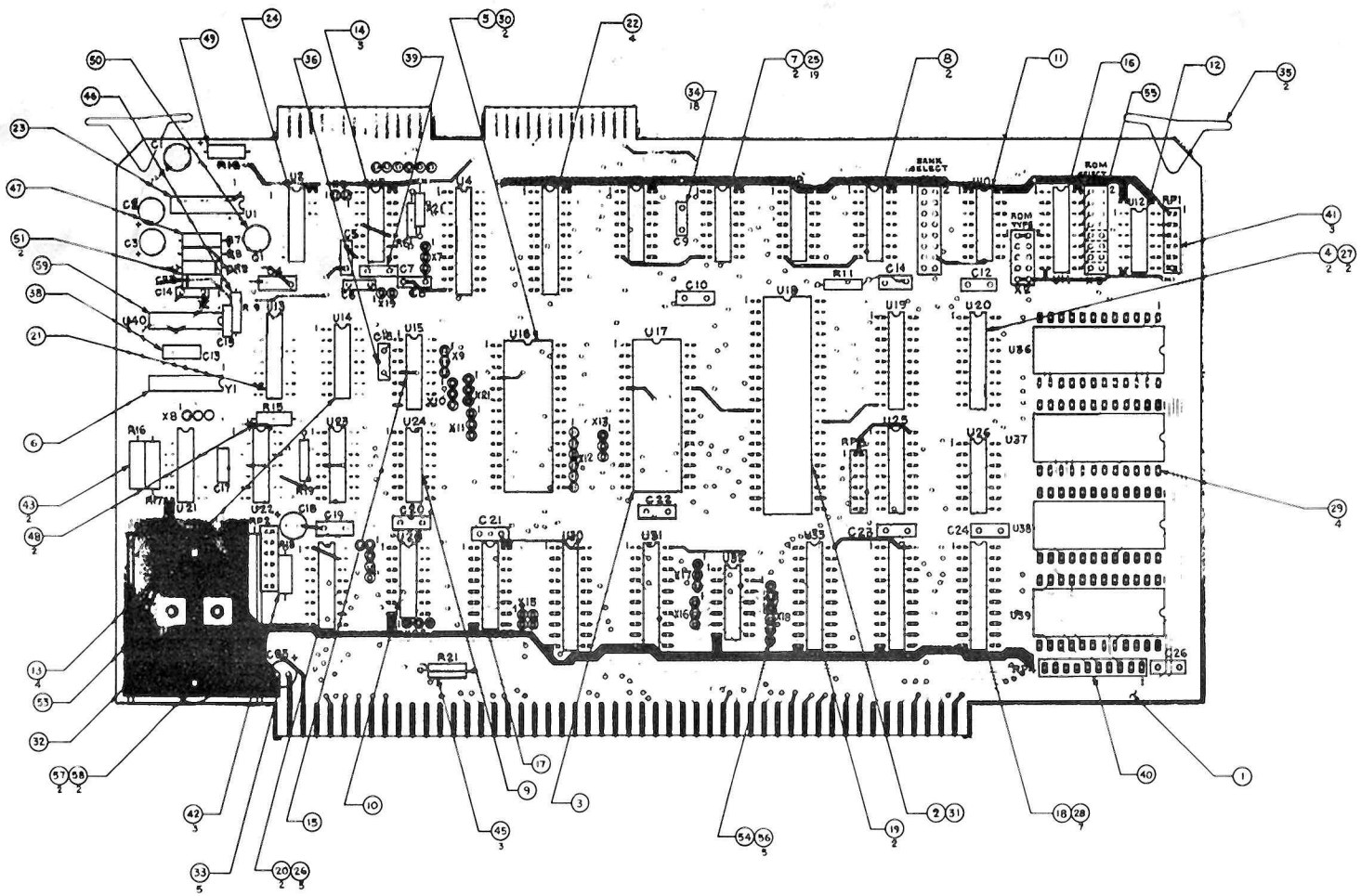
Item no	Qty	SD-P/N	Description	Unit Cost	Extension
48	2	7020097	RESISTOR 10K 1/4W 10% R15, 19		
49	1	7020082	RESISTOR 2.4K 1/4W R12		
50	1	7040006	TRANSISTOR PNP 2N3906 Q1		
51	2	7040004	DIODE ZENER 12V 5% IN4742A CR2, CR3		
53	1	7130004	HEAT SINK		
54	1	7170002	BERG STRAIGHT HEADER (1x6) X18		
55	1	7170003	BERG STRAIGHT HEADER (2x8) X3		
56	9	7170004	BERG PV JUMPERS		
57	2	7130006	SCREW 6-32 X 3/8 PPH		
58	2	7130007	NUT 6-32		
59	1	7010205	74LS93, U40		
60	2	7170021	BERG STRAIGHT HEADER (1x3) x 11 x 13		
61	1	7170018	BERG STRAIGHT HEADER (1x2) x 20 (1-20)		
62	1	7170012	BERG STRAIGHT HEADER (1x4) x 14		

APPENDIX C

SBC-200

ASSEMBLY DRAWING

REVISIONS			
LTR	DESCRIPTION	DATE	APP.



NOTES:

SEE SEPARATE B.O.M. 0100015

TOLERANCES .XX ± .020 ANGLE .XXX ± .010 ± ½° .XXXX ± .008	DRAWN BY D.O.	DATE 5-1-80	SD SYSTEMS GARLAND TEXAS
MATERIAL	CHECKED BY	DATE	SBC-200 ASSEMBLY DRAWING
FINISH	DESIGN ENGR	DATE	
NEXT ASSY USED ON APPLICATION	PROJ ENGR	DATE	
	APPROVED	DATE	SIZE D · CODE IDENT · DRAWING NO. 0100015 · REV
			SCALE ~ · DO NOT SCALE DRAWING · SHEET 1 OF 4